

1 **SECTION 8-24, ROCK WALL**

2 **May 28, 1996**

3 Division 8 is supplemented with the following new section:

4
5 **8-24, ROCK WALL**

6 **8-24.1 Description**

7 This work shall consist of constructing rock wall(s) in accordance with the Plans,
8 Special Provisions, these Specifications, or as designated by the Engineer.

9
10 **8-24.2 Materials**

11 Materials shall meet the requirements of the following Sections:

12		
13	Rock for Rock Wall and Chinking Material	9-13.7(1)
14	Backfill for Rock Wall	9-13.7(2)
15	Construction Geotextile	9-33
16		

17 **8-24.3 Construction Requirements**

18 **8-24.3(1) Quality Assurance**

19 The completed wall shall meet the following tolerances:

- 20
- 21 1. Wall batter shall be 6:1 or flatter as specified in the Plans.
 - 22 2. The exterior slope plane and grade in the finished surface of the wall
 - 23 shall be plus or minus 6 inches.
 - 24 3. The maximum void between adjacent rocks shall be 6 inches as
 - 25 measured at the smallest dimension of the void within the thickness of
 - 26 the wall.

27
28 **8-24.3(2) Excavation**

29 Excavation shall be in accordance with the requirements of Section 2-09 and in
30 conformity to the limits and construction stages shown in the Plans.

31

32 The Contractor shall restrict the excavation limits to the length of rock wall that
33 can be constructed in one day's work. Excavation beyond the limits that can be
34 completed in one day's work shall be permitted if the Contractor can demonstrate
35 that the excavation will remain stable until the rock wall is completed.

36

37 Slopes above the rock wall shall be established prior to excavating for the wall.

38
39 **8-24.3(3) Foundation Preparation**

40 The foundation for the wall shall be graded as shown in the Plans.

41

42 Prior to rock placement, the foundation, if not in rock, shall be compacted as
43 approved by the Engineer. Any foundation soils found to be unsuitable shall be
44 removed and replaced as provided for under Section 2-09.3(1)C.

45

46 Base course rocks shall have full contact with the foundation soils. If necessary,
47 the excavation shall be shaped to fit the rocks. Rocks may be dropped to shape
48 the ground provided the rocks do not crack. Cracked rocks shall be replaced and
49 the foundation regraded to fit the replacement rock.

1
2 **8-24.3(4) Construction Geotextile**

3 Construction Geotextile shall be as shown in the Plans and shall conform to
4 Section 9-33.
5

6 **8-24.3(5) Rock Placement and Backfill**

7 Rocks shall be placed so there are no continuous joint planes in either the vertical
8 or lateral direction.
9

10 Where possible, rocks shall be placed so that the rock shall bear on at least two
11 rocks below it. Rocks shall be oriented so that flat surface contact points
12 between adjacent rocks are maximized. Point to point contact between adjacent
13 rocks shall be minimized. Each rock in a course shall be arranged so that the
14 natural irregularities in the rocks key the rocks together and so that the courses
15 are keyed together.
16

17 Rocks shall increase in size from the top of the wall to the bottom at a uniform
18 rate. The minimum rock sizes, as referenced from the top of the wall, shall be as
19 follows:
20

Depth From Top of Wall (ft.)	Minimum Rock Size at Depth From Top of Wall
6	Three Man
9	Four Man
12	Five Man

21
22 Rocks at the top of the wall shall be a minimum Two Man.
23

24 Where voids larger than 6 inches are present, chinking rock shall be keyed
25 between the rocks to fill the void.
26

27 Backfill for the rock wall shall be placed behind each course and tamped to
28 provide a stable condition prior to placing rocks for the next successive course.
29 Backfill shall be shot rock in accordance with Section 9-13.7(2).
30

31 For rock walls constructed in fills, the fill shall be overbuilt and cut back to
32 construct the wall.
33

34 **8-24.4 Measurement**

35 Rock for rock walls and backfill for rock walls will be measured by the ton of rock
36 actually placed.
37

38 Construction Geotextile shall be measured by the square yard for the surface
39 area actually covered.
40

41 Structure Excavation Class B shall be in accordance with Section 2-09.4.
42

43 **8-24.5 Payment**

- 1 Payment will be made in accordance with Section 1-04.1 for each of the following
2 bid items that are included in the proposal:
3
4 " Rock for Rock Wall ", per ton.
5
6 The unit contract price per ton for "Rock for Rock Wall" shall also include
7 furnishing and installing chinking materials.
8
9 " Backfill for Rock Wall ", per ton.
10 " Construction Geotextile ", per square yard.
11 " Structure Excavation Class B ", per cubic yard.